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Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-01/847i/Precast slab/2018-19 19.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
* Sample ID	:	Precast slab (100mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	17.01.2019
Date of Testing	:	19.01.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.392	2559.54	1.56	0.952	30.25	15.41	16.64	17.47	21.84
2	50.00	80.00	0.408	2597.41	1.60	0.957	32.95	16.78	18.12	17.34	21.68
3	50.00	81.00	0.410	2577.92	1.62	0.959	33.75	17.19	18.56	17.80	22.25

* Information is furnished by the Customer/Representative

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Pooja K.L

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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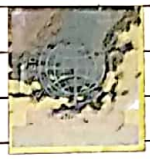
Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-01/847i/Kerbstone/2018-19 19.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
* Sample ID	:	Kerbstone
* Grade of Concrete	:	M_{15}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	17.01.2019
Date of Testing	:	19.01.2019



Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.405	2515.42	1.64	0.961	22.50	11.46	12.38	12.88	16.10
2	50.00	83.00	0.420	2577.16	1.66	0.963	24.95	12.71	13.72	13.22	16.52
3	50.00	80.00	0.403	2565.58	1.60	0.957	25.95	13.22	14.27	13.66	17.07

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/KRIDL/W.No.14/WMM/Gradation/2018-19 21.01.2019

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386 (part-1)1963 (RA-2011)
Date of Testing	:	21.01.2019

Oven Dry Wt (gm): 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	130	130	2.6	97.4	95-100
22.4	1490	1620	32.40	67.60	60-80
11.2	965	2585	51.70	48.30	40-60
4.75	760	3345	66.90	33.10	25-40
2.36	680	4025	80.50	19.50	15-30
0.600	415	4440	88.80	11.20	8-22
0.075	325	4765	95.30	4.70	0-8

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/KRIDL/W.No.14/WMM/AIV/2018-19

21.01.2019

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS : 2386(Part -4)-1963 (RA-2011)
Date of Testing	:	21.01.2019

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	378	380	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	78	79	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	300	301	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	20.63	20.79	20.71

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/KRIDL/W.No.14/WMM/Shape.T/2018-19 21.01.2019

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386(Part 1) 1963 (RA 2011)
Date of Testing	:	21.01.2019

Sl.No.	Description	Result
1	Flakiness Index	12.32%
2	Elongation Index	13.30%
3	Combined Flakiness & Elongation Index	25.62%

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Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-01/847i/Cube/2018-19 27.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.01.2019	27.02.2019	8.112	495.8	22.04
2	30.01.2019	27.02.2019	8.209	515.4	22.91
3	30.01.2019	27.02.2019	8.395	526.9	23.42

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For M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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